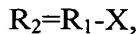


CLAIM AMENDMENTS:

Claims 1-12 (Cancelled)

13. (Currently amended) A pharmaceutical, nutraceutical, dietetic integrator composition, comprising: [Compounds] a compound of the general formula



wherein X is a primary alcoholic functional group $-CH_2OH$, a carboxylic functional group $-COOH$ or a C₁-C₄ alkyl ester group,

wherein R₁ and R₂ have a total of from 23 to 35 carbon atoms and R₁ is a saturated linear hydrocarbon chain having from 4 to 15 carbon atoms and R₂ is a hydrocarbon chain having from 8 to 22 carbon atoms which is saturated or unsaturated, including from one to four ethylenic and/or acetylenic unsaturations, linear or branched, ~~including from one to four methyl branches~~, their pharmaceutically acceptable salts and mono-, di- and tri-glycerides of acids R₂ = R₁-COOH, and

a pharmaceutically acceptable excipient for nutritional use in a form suitable for oral administration.

14. (Currently amended) Compounds The composition according to claim 13, wherein R₁ is a hydrocarbon chain having from 7 to 13 carbon atoms and R₂ is a hydrocarbon chain having from 10 to 20 carbon atoms.

15. (Currently amended) Compounds The composition according to claim 13, wherein R₁ is a saturated linear hydrocarbon chain having 9 carbon atoms.

16. (Currently amended) Compounds The composition according to claim 13, wherein R₂ is the hydrocarbon chain of a naturally occurring fatty acid.

17. (Currently amended) Compounds A pharmaceutically, nutraceutical, dietetic integrator composition comprising:

a compound selected from the group consisting of:

- octacosa-10,19-dienoic acid,
- octacosa-10,19,22-trienoic acid,
- octacosa-1,19,22,25-tetraenoic acid,
- 14,18,22-trimethyltricos-10,13,17,21-tetraenoic acid,
- primary alcohols of 18,19 octacosadiene, 10,19,20 octacosatriene, 1,19,22,25 octacosatetraene and 14,18,22 trimethyltricos-10,13,17,21 tetraene, and
- C₁-C₄ alkyl ester of
- octacosa-10,19-dienoic acid,
- octacosa-10,19,22-trienoic acid,
- octacosa-1,19,22,25-tetraenoic acid, and
- 14,18,22-trimethyltricos-10,13,17,21-tetraenoic acid;
- ~~primary alcohols of 18,19 octacosadiene, 10,19,20 octacosatriene, 1,19,22,25 octacosatetraene and 14,18,22 trimethyltricos-10,13,17,21 tetraene, and~~
- a pharmaceutically acceptable excipient for nutritional use in a suitable form for oral administration.

18. (Currently amended) Compounds The composition according to claim 17, wherein the C₁-C₄ alkyl ester is an ethyl ester.

19. (Currently amended) Pharmaceutical The pharmaceutical, nutraceutical, dietetic integrator or cosmetic compositions ~~including a compound~~ as defined in claim 13 ~~in association with further comprising~~ anti-oxidant vitamins, carnitine or its alkanoyl derivative.

Claims 20-24 (Cancelled)

25. (New) A method of treating hypercholesterolemia comprising administering to a patient an oral pharmaceutical composition comprising a compound having the formula



wherein X is a primary alcoholic functional group -CH₂OH, a carboxylic functional group -COOH or a C₁C₄ alkyl ester group,

wherein R₁ and R₂ have a total of from 23 to 35 carbon atoms and R₁ is a saturated linear hydrocarbon chain having from 4 to 15 carbon atoms and R₂ is a hydrocarbon chain having from 8 to 22 carbon atoms which is saturated or unsaturated, including from one to four ethylenic, linear or branched, their pharmaceutically acceptable salts and mono-, di- and tri-glycerides of acids R₂ = R₁-COOH, and

a pharmaceutically acceptable excipient for nutritional use in a suitable form for oral administration.

26. (New) A method for treating hypercholesterolemia comprising administering to a patient an oral pharmaceutical composition comprising a compound selected from the group consisting of:

- octacosa-10,19-dienoic acid,
- octacosa-10,19,22-trienoic acid,
- octacosa-1,19,22,25-tetraenoic acid,

- 14,18,22-trimethyltricos-10,13,17,21-tetraenoic acid,
- primary alcohols of 18,19 octacosadiene, 10,19,20 octacosatriene, 1,19,22,25 octacosatetraene and 14,18,22 trimethyltricos-10,13,17,21 tetraene, and
- C₁-C₄ alkyl ester of
- octacosa-10,19-dienoic acid,
- octacosa-10,19,22-trienoic acid,
- octacosa-1,19,22,25-tetraenoic acid, and
- 14,18,22-trimethyltricos-10,13,17,21-tetraenoic acid-

a pharmaceutically acceptable excipient for nutritional use in a suitable form for oral administration.